



SLOVENSKI STANDARD

SIST EN 50157-2-2:2001

01-marec-2001

Domestic and similar electronic equipment interconnection requirements: AV link - Part 2-2: Basic system oriented comma

Domestic and similar electronic equipment interconnection requirements: AV.link -- Part 2-2: Basic system oriented commands

Kennwerte für die Kleinsignalverbindung zwischen elektronischen Geräten für den Heimgebrauch und ähnliche Anwendungen: AV.link - Teil 2-2: Grundlegende systemorientierte Befehle

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Spécification des interconnexions des équipements électroniques domestiques et à usage analogue: AV.link -- Partie 2-2: Commandes de base du système

Ta slovenski standard je istoveten z: EN 50157-2-2:1998

ICS:

33.160.40 Video sistemi Video systems

SIST EN 50157-2-2:2001 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 50157-2-2

August 1998

ICS 33.160.30; 33.160.40

Descriptors: Television systems, peritelevision devices, appliance interconnection, control systems, connectors, data transmissions, message, frame check sequence, protocol

English version

**Domestic and similar electronic equipment
interconnection requirements: AV.link
Part 2-2: Basic system oriented commands**

Spécification des interconnexions des
équipements électroniques domestiques
et à usage analogue: AV.link
Partie 2-2: Commandes de base
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Kennwerte für die Kleinsignalverbindung
zwischen elektronischen Geräten für den
Heimgebrauch und ähnliche
Anwendungen: AV.link
Teil 2-2: Grundlegende systemorientierte
Befehle

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

This European Standard was prepared by the former Technical Committee CENELEC TC 203, Electronic entertainment and educational systems for household and similar use (in July 1998 TC 203 has become part of TC 206, Consumer equipment for entertainment and information and related sub-systems).

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50157-2-2 on 1998-08-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1999-08-01
 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1999-08-01
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1 Scope

AV.link devices may communicate with each other in AV.link mode 2 by sending and receiving basic system oriented commands. The AV.link mode 2 communication takes place via the AV.link on contact 10 of the peri-television connector as specified in EN 50049-1.

By sending AV.link system oriented commands a device may control some basic functions of other devices. For instance an AV.link television may control some functions of an AV.link Video Cassette Recorder.

This document specifies the AV.link communication protocols and the basic AV.link commands within mode 2.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and are listed here after. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

| | |
|--------------|--|
| EN 50049-1 | Domestic and similar electronic equipment interconnection requirements: Peritelevision connector |
| EN 50157-1 | Domestic and similar electronic equipment Interconnection requirements: AV.link Part 1: General |
| EN 50157-2-1 | Part 2-1: Signal quality matching and automatic selection of source devices |
| IEC 60807-9 | Rectangular connectors for frequencies below 3 MHz - Part 9: Detail specification for a range of peritelevision connectors |

3 The AV.link model

| | |
|--|--|
| Audio / Video system Applications | |
| <p>AV.link Part 1 General. Part 2-1 Signal quality Selection of devices</p> | <p>Part 2-2 Basic System Oriented Commands</p> |
| <p>Network layer Mode 1 Control signal format Mode 1 frame specification</p> | <p>Network layer Mode 2 Command message format Mode 2 frame specification</p> |
| <p>Specification of the Physical layer (EN 50049-1) Specification of the control signal line on Contact 10 of the peritelevision connector. Bit specification Electrical specification Mechanical specification</p> | |
| <p>Specification of the peritelevision connector (EN 50049-1)</p> | |
| <p>Part 2-8 For future extension</p> | |
| <p>Network layer Mode 8 To be stated</p> | |

Figure 1: AV.link model

Figure 1 shows the AV.link model by which AV.link devices can communicate with each other.

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4 Abbreviations and definitions

| | |
|----------------------------|--|
| ACK | ACKnowledge |
| AV.link connector | 21-pin Peritelevision connector for audio/video systems as specified in the AV.link document EN 50157-1. |
| broadcast message | A message addressed to all devices, using the general call destination address. |
| block | A number of bits that are clustered. |
| command | Data unit of bits that specify the addressed device what action to perform. |
| directly addressed message | A message transmitted to an individual device address. |
| downstream signal path | The signal path away from the display unit. For the definition see EN 50157-2-1. |
| ECT | Extended Command Table. Bit in the command block of a frame. For future use. |
| EOM | End Of Message. Bit in the header block of a frame. This bit indicates the presence or absence of a command block. |
| follower | The device that responds to a message which is initiated by the initiator. See EN 50157-2-1. |
| frame | A self contained unit in which a message is conveyed over the physical layer and that consists of a start block, a header block and a command block. |
| initiator | The device that starts a message exchange. See EN 50157-2-1. |
| message | Data block structure, through which a command may be send from one device to another. It includes the address block and the command block. |
| SAT | Satellite tuner. |
| upstream signal path | The signal path towards the display unit. For the definition see EN 50157-2-1. |
| VCR1 | Video Cassette Recorder with address 1. |
| VCR2 | Video Cassette Recorder with address 2. |

5 The AV.link interconnection chain

The signal path interconnection chain of AV.link devices is an interconnection system with the chain principle as described in clause 3 of EN 50157-2-1. Some examples of configurations are given below.

5.1 Example 1: Minimum supported combination of devices.

This minimum configuration only consists of a TV and a VCR.

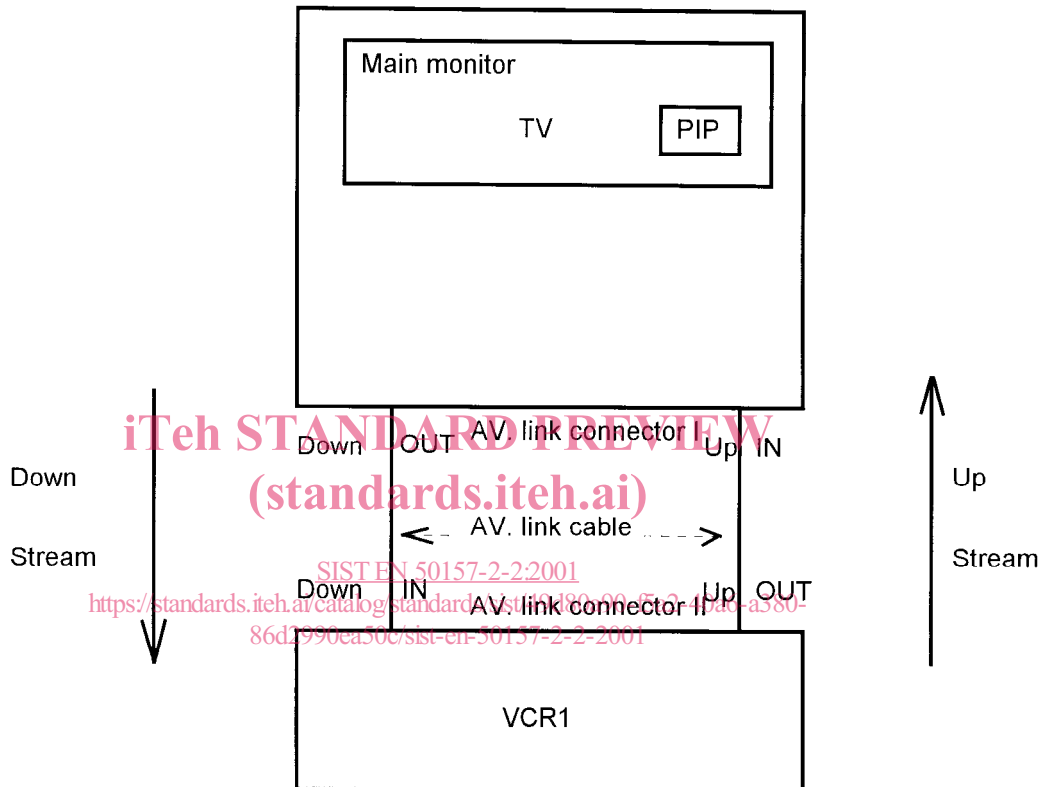


Figure 2: Example of minimum combination of devices